



# SPEC® CINT2006 Result

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## Supermicro

**SPECint®\_rate2006 = 72.0**

SuperServer 1017C-TF (X9SCL-F, Intel E3-1220L)

**SPECint\_rate\_base2006 = 68.3**

CPU2006 license: 001176

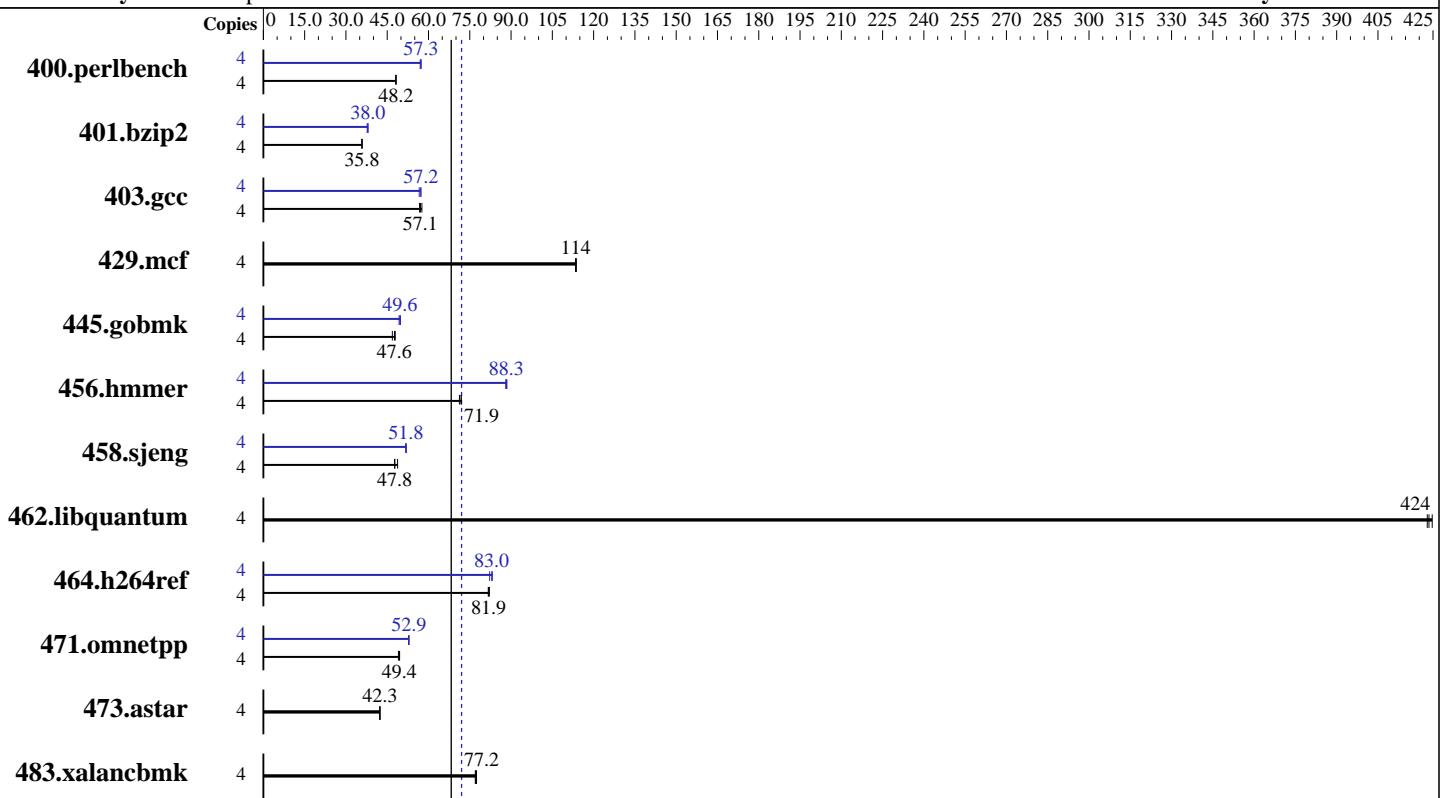
Test sponsor: Supermicro

Tested by: Supermicro

**Test date:** Mar-2012

**Hardware Availability:** Apr-2011

**Software Availability:** Oct-2011



**SPECint\_rate\_base2006 = 68.3**

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### Hardware

CPU Name:	Intel Xeon E3-1220L
CPU Characteristics:	Intel Turbo Boost Technology up to 3.40 GHz
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip, 2 threads/core
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core
L3 Cache:	3 MB I+D on chip per chip
Other Cache:	None
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-10600E-9, ECC)
Disk Subsystem:	1 x 500 GB SATA II, 7200 RPM
Other Hardware:	None

### Software

Operating System:	Red Hat Enterprise Linux Server Release 6.1, Kernel 2.6.32-131.0.15.el6.x86_64
Compiler:	C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux
Auto Parallel:	No
File System:	ext4
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V9.01



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## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	812	48.1	811	48.2	<b>811</b>	<b>48.2</b>	4	682	57.3	<b>683</b>	<b>57.3</b>	686	57.0
401.bzip2	4	1076	35.9	<b>1078</b>	<b>35.8</b>	1078	35.8	4	1023	37.7	<b>1016</b>	<b>38.0</b>	1016	38.0
403.gcc	4	<b>564</b>	<b>57.1</b>	567	56.7	559	57.6	4	<b>563</b>	<b>57.2</b>	563	57.2	569	56.6
429.mcf	4	321	114	322	113	<b>321</b>	<b>114</b>	4	321	114	322	113	<b>321</b>	<b>114</b>
445.gobmk	4	<b>881</b>	<b>47.6</b>	895	46.9	876	47.9	4	<b>846</b>	<b>49.6</b>	851	49.3	843	49.8
456.hammer	4	524	71.2	<b>519</b>	<b>71.9</b>	519	71.9	4	424	88.1	422	88.5	<b>423</b>	<b>88.3</b>
458.sjeng	4	992	48.8	<b>1013</b>	<b>47.8</b>	1014	47.7	4	935	51.8	933	51.9	<b>934</b>	<b>51.8</b>
462.libquantum	4	196	423	<b>196</b>	<b>424</b>	195	425	4	196	423	<b>196</b>	<b>424</b>	195	425
464.h264ref	4	1078	82.1	<b>1081</b>	<b>81.9</b>	1083	81.7	4	1077	82.2	1064	83.2	<b>1067</b>	<b>83.0</b>
471.omnetpp	4	<b>506</b>	<b>49.4</b>	509	49.1	505	49.5	4	473	52.9	474	52.7	<b>473</b>	<b>52.9</b>
473.astar	4	663	42.4	664	42.3	<b>663</b>	<b>42.3</b>	4	663	42.4	664	42.3	<b>663</b>	<b>42.3</b>
483.xalancbmk	4	356	77.4	<b>358</b>	<b>77.2</b>	358	77.0	4	356	77.4	<b>358</b>	<b>77.2</b>	358	77.0

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Submit Notes

The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset commands to bind each copy to a specific processor. For details, please see the config file.

## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

## Platform Notes

Fan speed set to Full Speed in BIOS Set Up

## General Notes

Environment variables set by runspec before the start of the run:  
LD\_LIBRARY\_PATH = "/usr/cpu2006/libs/32:/usr/cpu2006/libs/64"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB memory using RHEL5.5

Transparent Huge Pages enabled with:

echo always > /sys/kernel/mm/redhat\_transparent\_hugepage/enabled



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## Base Compiler Invocation

C benchmarks:

  icc -m32

C++ benchmarks:

  icpc -m32

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32

462.libquantum: -DSPEC\_CPU\_LINUX

483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

  -xAVX -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3

C++ benchmarks:

  -xAVX -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3  
  -Wl,-z,muldefs -L/smartheap -lsmartheap

## Base Other Flags

C benchmarks:

  403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):

  icc -m32

400.perlbench: icc -m64

  401.bzip2: icc -m64

  456.hmmer: icc -m64

  458.sjeng: icc -m64

C++ benchmarks:

  icpc -m32



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## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX\_X64  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
458.sjeng: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

400.perlbench: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -auto-ilp32  
  
401.bzip2: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch  
-auto-ilp32 -ansi-alias  
  
403.gcc: -xAVX -ipo -O3 -no-prec-div  
  
429.mcf: basepeak = yes  
  
445.gobmk: -xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)  
-ansi-alias -opt-mem-layout-trans=3  
  
456.hmmer: -xAVX -ipo -O3 -no-prec-div -unroll12 -auto-ilp32  
  
458.sjeng: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll14  
-auto-ilp32  
  
462.libquantum: basepeak = yes  
  
464.h264ref: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll12  
-ansi-alias

C++ benchmarks:

471.omnetpp: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias  
-opt-ra-region-strategy=block -Wl,-z,muldefs  
-L/smartheap -lsmartheap  
  
473.astar: basepeak = yes  
  
483.xalancbmk: basepeak = yes



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## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html>  
<http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-revA.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml>  
<http://www.spec.org/cpu2006/flags/Supermicro-Platform-Settings-revA.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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